

Amol Mane

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Objective:

Aspiring Software Developer skilled in C, C++, and Java with strong foundations in OS internals, data structures, and full-stack development. Seeking opportunities to apply my technical expertise in building scalable and efficient software solutions.

Education:

Dr. Babasaheb Ambedkar Technological University, Lonere

Nov 2022 – July 2026

BTech Information Technology

CGPA: 7.29/10

Professional Summary

- Proficient in C, C++, and Java with hands-on experience in Linux System Programming, OS internals, kernel-level concepts, and performance tuning.
- Skilled in backend development using Java, RESTful APIs, database integration, and cross-platform programming.
- Designed and implemented 7+ industry-oriented projects including full-stack applications, cryptography systems, reusable libraries, and secure file transfer modules.
- Strong in algorithms, data structures, encryption, system-level security, and both console & GUI (Swing/AWT) application development.
- Familiar with Agile, Waterfall, and Incremental SDLC, active GitHub contributor with well-documented repositories and strong problem-solving skills.
- Experienced in shell scripting with the ability to quickly learn, adapt, and mentor peers.

Work Experience:

Software Developer Intern — SiliconMount Tech Services | Remote

December 2025 - Present

- Working as a backend developer on an **Asset Management System** using Java, Spring Boot, MySQL, and REST APIs.
- Designed and implemented authentication features (JWT) and role-based access control.
- Built scalable APIs for asset lifecycle operations (creation, allocation, return, maintenance).

Technical Skills:

Programming Languages: Java (Core & Advanced), C, C++, SQL

Frameworks & Web: Spring Boot, RESTful APIs, JDBC, Swing, AWT, HTML5, CSS3

Tools & Platforms: Git, GitHub, VS Code, Visual Studio, Apache Tomcat

Databases: MySQL, Oracle SQL, MongoDB (NoSQL)

Operating System: Windows NT, Linux Distributions

Methodologies: Agile, Incremental, Waterfall

Other:

Shell Scripting, Apache Tomcat, Unit Testing

Projects:

1. Virtual File System (VFS) | C Programming, OS Internals

- Simulated Linux-like file system operations with a custom shell.
- Implemented system calls (open, read, write, lseek, delete).
- Gained hands-on understanding of inodes, file tables, and OS design.

2. Generalized Data Structures Library | C++

- Developed a reusable library of linear & non-linear data structures.
- Implemented stacks, queues, linked lists, BST, searching & sorting.
- Designed using templates for data type independence.

3. Chat-Bird Messenger with Log Facility | Java, Socket Programming, Swing, AWT

- Implemented a peer-to-peer chat system with real-time messaging.
- Maintained chat logs with timestamps for future reference.
- Applied TCP/IP socket programming concepts.

4. File Packer Unpacker | Java

- Built a file archiving utility with integrated encryption/decryption.
- Implemented metadata preservation during packing/unpacking.
- Designed GUI using Swing for user-friendly interaction.

5. Customized Database Management System | Java, Serialization

- Implemented a Database Management System without using actual DBMS.
- Implemented Java's Collections Framework.
- Persist data between program runs using Serialization and Deserialization.

Achievements:

Solved 100+ coding problems across CodeChef, GFG, LeetCode.

Typing speed : 60+ WPM.

Semi-finalist in MumbaiHacks Hackathon.

The above-mentioned information is authentic to the best of my knowledge.

Amol Ramesh Mane